

FIG. 1

HindIII

pKK223-3 TTCACACAGGAAACAGAATTCCCGGGGATCCGTCGACCTGCAGCCAAGCTT

SEQ ID NO.: 285

pKK223-3N TTCACATAAGGAGGAAAAAaccatggGATCCG-----AAGCTT

NcoI

SEQ ID NO.: 286

FIG. 2A

Cloning Step 1

I N A N P N A N P N A N P N A N P E L
 A ATT AAC GCT AAT CCG AAC GCT AAT CCG AAC GCT AAT CCG AAC GCT AAT CCG AAC GCT AAT CCG AAC GCT
 TTG CGA TTA GGC TTG CGA TTA GGC TTG CGA TTA GGC TTG CGA TTA GGC C

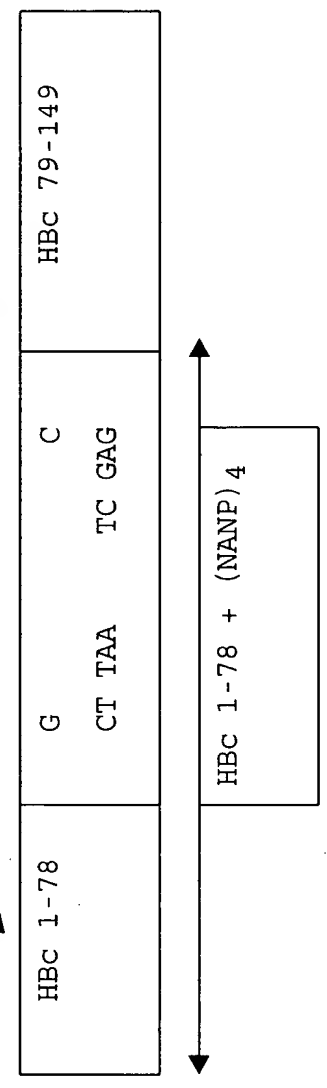


FIG. 2B

Cloning Step 2

I E Y L N K I Q N S L S T E W S P C S V T *

A ATT GAA TAT CTG AAC AAA ATC CAG AAC TCT CTG TCC ACC GAA TGG TCT CCG TGC TCC GTT ACC TAA AAG CT

CTT ATA GAC TTG TTT TAG GTC TTG AGA GAC AGG TGG CTT ACC AGA GGC ACG AGG CAA TGG ATT T



HBc79-149 + PF/CS326-345

FIG. 2C

Cloning step 3

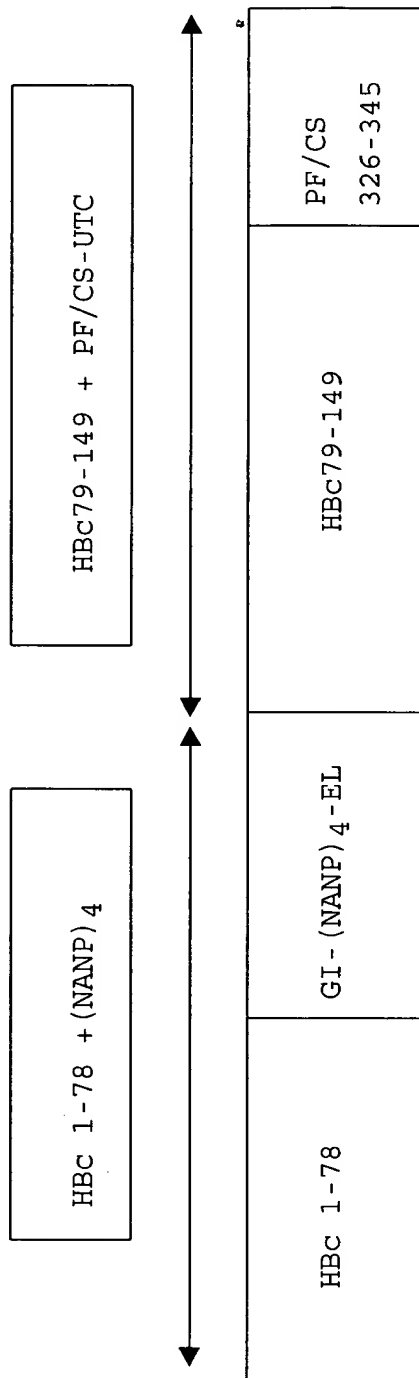


FIG. 3

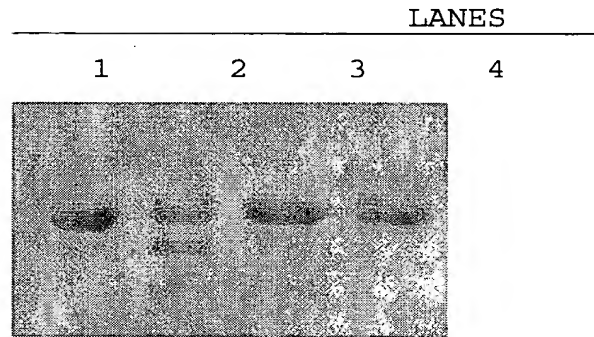


FIG. 4

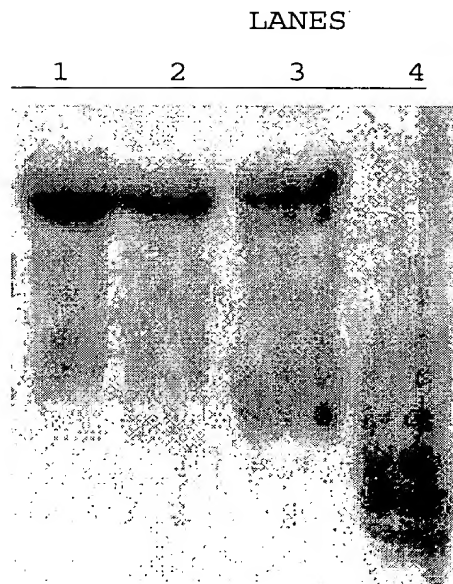


FIG. 3

FIG. 5

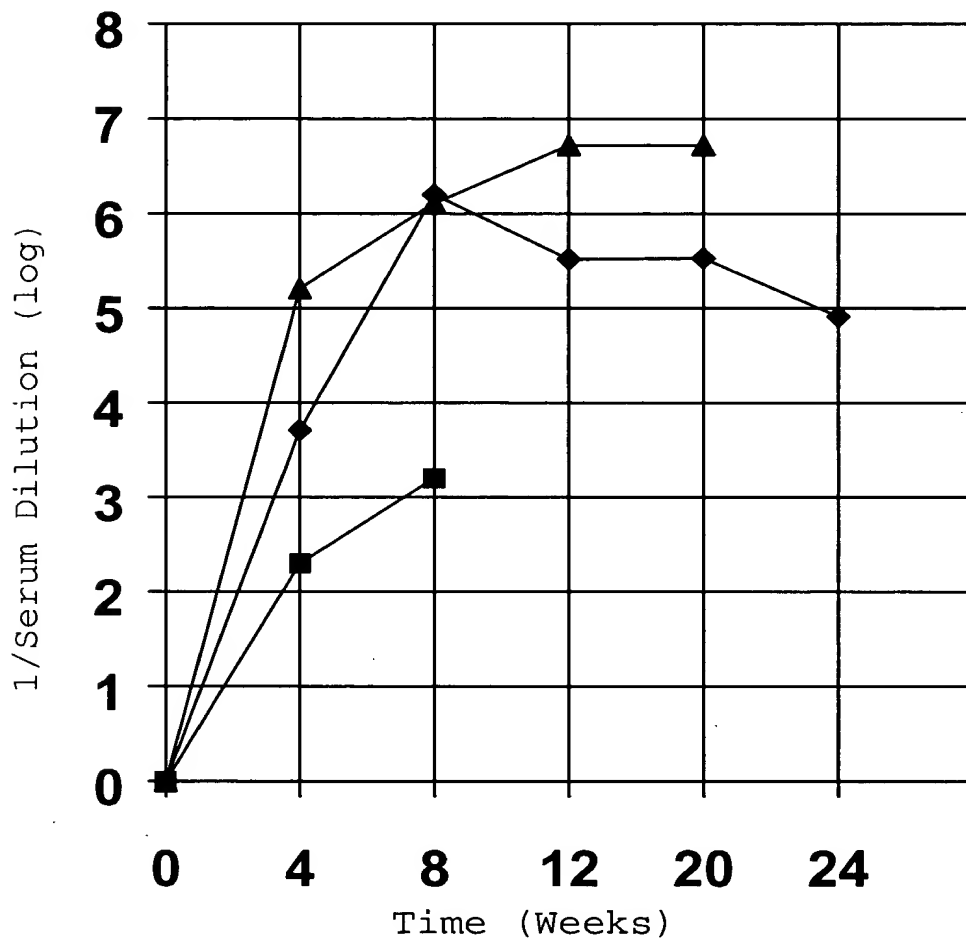
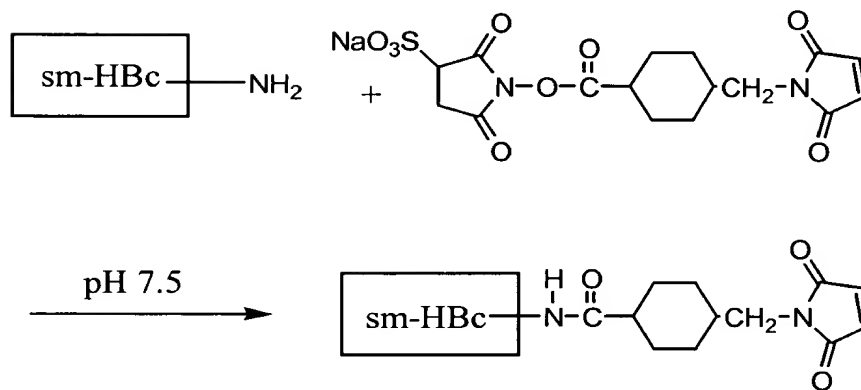


FIG. 6

Scheme 1

I



II

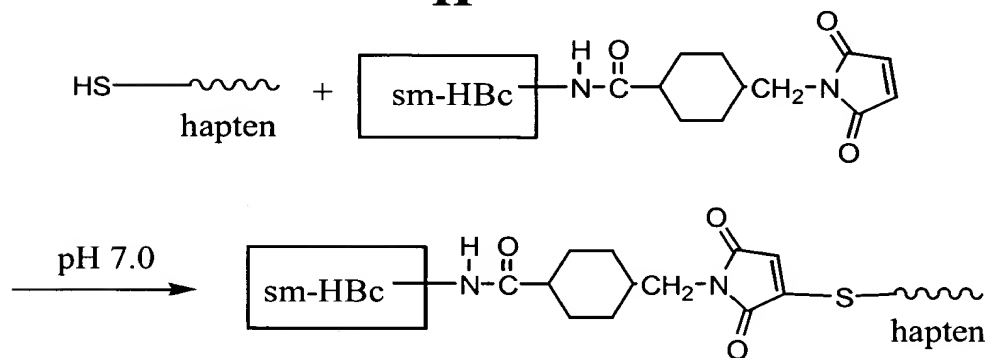


FIG. 7A

FIG. 7A

Ground Squirrel	mylfhlclvf acvpcptvga sklclglwld
	1
HBC AYW	mdidpykefg atvellsflp sdffpsvrdl ldtasalyre
HBC ADW	mdidpykefg atvellsflp sdffpsvrdl ldtasalyre
HBC ADW2	mdidpykefg atvellsflp sdffpsvrdl ldtasalyre
HBC ADYW	mdidpykefg atvellsflp sdffpsvrdl ldtasalyrd
Woodchuck	mdidpykefg ssyqlnflp ldffpdlnal vdtatalyee
Ground Squirrel	mdidpykefg ssyqlnflp ldffpdlnal vdtasalyee
	41
HBC AYW	alespehcsp hhtalrqail cwgelmtlat wvgvnledpa
HBC ADW	alespehcsp hhtalrqail cwgelmtlat wvgnnlqdp
HBC ADW2	alespehcsp hhtalrqail cwgelmtlat wvgnnledpa
HBC ADYW	alespehcsp hhtalrqail cwgelmtlat wvgtnledpa
Woodchuck	eltgrehcsp hhtairqalv cwdeitkia wmsnitseq
Ground Squirrel	eltgrehcsp hhtairqalv cweeltrlit wmsenttee

FIG. 7B

81	HBC AYW	srdlvvsyvn	tnmglkfrql	lwfhiscltf	gretvieylv
	HBC ADW	srdlvvnyvn	tnmglkirql	lwfhiscltf	gretvleylv
	HBC ADW2	srdlvvnyvn	tnvglkirql	lwfhiscltf	gretvleylv
	HBC ADYW	srdlvvsyvn	tnvglkfrql	lwfhiscltf	gretvleylv
	Woodchuck	vrtiivnhvn	dtwglkvrqs	lwfhlsccltf	gqhtvqeflv
	Ground Squirrel	rriiivdhvnn	twglkvrqtl	wfhlsccltf	qhtvqeflvs
121	HBC AYW	sfgvwirtpp	ayrppnapil	stlpettvvr	rrgrsprrrt
	HBC ADW	sfgvwirtpp	ayrppnapil	stlpettvvr	rrdrgsprrr
	HBC ADW2	sfgvwirtpp	ayrppnapil	stlpettvvr	rrdrgsprrr
	HBC ADYW	sfgvwirtpp	ayrppnapil	stlpettvvr	rrgrsprrrt
	Woodchuck	sfgvwirtpa	pyrppnapil	stlpehtvir	rrggarasrs
	Ground Squirrel	fgvwirtpap	yrppnapils	tlpehtvirr	rggsraarsp
161	HBC AYW	psprrrrsqs	prrrrsqsre	sqc	
	HBC ADW	rtpsprrrrs	qsprrrsqs	resqc	
	HBC ADW2	rtpsprrrps	qsprrrsqs	resqc	
	HBC ADYW	psprrrrsqs	prrrrsqsre	sqc	
	Woodchuck	prrrtpspr	rrsqsprrrr	sqc	
	Ground Squirrel	rrrrtpspr	rrsqsprrrr	qspasnc	

FIG. 8

<u>V12.Pf1</u>			<u>V12.Pf1 (C17A) C150</u>		
<u>DAYS</u>					
0	7	14	0	7	14

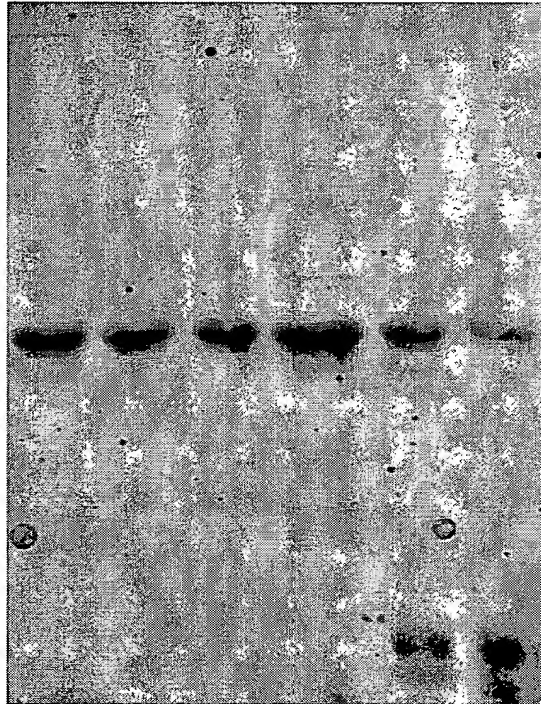


FIG. 9

1 2 3 4 5

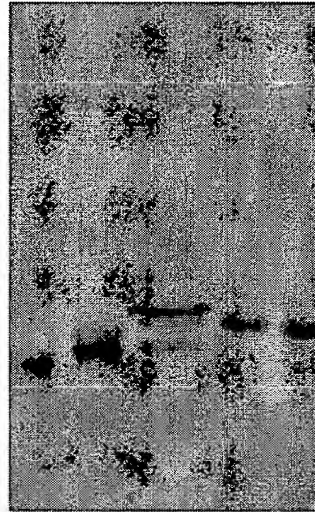


FIG. 9